University of Connecticut
George L. Davis
Tower Manager

1814 Route 171
Woodstock Valley, Connecticut 06282
Phone: 860 974-1856
Fax: 860 974-2757
Email: davisgl@earthlink.net

November 4, 2002

Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Sprint Tower – Change of Ownership
82 North Eagleville Road
Storrs, CT

Dear Mr. Chairman:

Please be advised that pursuant to an agreement between Sprint Spectrum, L.P. and the University of Connecticut executed in 1997, ownership of the abovementioned tower shall transfer to the university. The effective date was supposed to have been May 1, 2002; however, due to administrative delays on the part of Sprint, the transfer will not take place until later this month.

Detailed tower information:
FAA Study # 00-ANE-0343-OE
Lat/Lon 41-48-51.7 072-15-37.2W
Height AGL 250'

Thank you for your consideration.

Sincerely,

George L. Davis
Tower Manager

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@po.state.ct.us
Web Site: www.state.ct.us/csc/index.htm

April 30, 2002

Ms. Michele G. Briggs
Manager of Real Estate
SNET Mobility, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-078-020410** – SNET Mobility, LLC notice of intent to modify an existing telecommunications facility located at North Eagleville Road, Storrs, Connecticut.

Dear Ms. Briggs:

At a public meeting held on April 25, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice[s] dated April 9, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/DM/laf

c: Honorable Elizabeth Patterson, Mayor, Town of Mansfield
Mr. Gregory Padick, Town Planner
Mr. George Davis

SNET Mobility, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

Steve Levine
Real Estate Consultant

April 9, 2002

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

RE: SNET Mobility, LLC bulk filing of Exempt Modification Notices for existing telecommunications facilities in Mansfield and Waterbury

Dear Mr. Gelston:

This letter accompanies two Notices of Exempt Modification in connection with SNET's GSM upgrade for existing telecommunications facilities in Mansfield and Waterbury.

Owing to the limited nature of the proposed modifications, the Council's evaluation of these notices should require a de minimus level of effort on the part of its staff and provoke little or no discussion on the part of Council Members.

Accordingly, we believe that the applications qualify for "bulk" submission, and we remit one check in the amount of $500.

Thank you for your consideration of these Notices of Exempt Modification.

Sincerely,

Steve Levine
Real Estate Consultant

Enclosures

SNET Mobility, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

April 9, 2002

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: SNET Mobility, LLC notice of intent to modify an existing telecommunications facility located on the University of Connecticut campus off North Eagleville Road, Storrs, Connecticut. (Docket No. 179)

Dear Mr. Gelston:

On March 7, 2002, the Connecticut Siting Council approved an application by SNET Mobility, LLC ("SNET") to install antennas and equipment at an existing wireless telecommunications tower facility located at North Eagleville Road in Storrs, Connecticut.

The North Eagleville Road facility is owned and operated by the University of Connecticut ("UCONN") and WHUS-FM Radio. UCONN's Tower Site Manager is Mr. George Davis, whose address in 1814 Route 171, Woodstock Valley, Connecticut 06282.

Owing to rapidly evolving telecommunications technology, SNET has now decided to install different antennas than were approved in EM-SNET/NEXTEL-078-020226. SNET also intends to place some additional small pieces of telecommunications equipment on the tower.

Please accept this letter as notification to the Connecticut Siting Council, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter is being sent to the Town Manager of Mansfield.

Enclosed with this notice are revised power density calculations, a revised tower profile, and a structural analysis demonstrating continued environmental, health, and safety compliance under SNET's revised equipment configuration.

Equipment Substitution and Additions

Under EM-SNET/NEXTEL-078-020226, SNET was approved to install up to eight Decibel Products Model DB846H80(E)-SX panel antennas, three Allgon Model 7125.18.05 panel antennas, and one EMS RS90-12-00DA-2 panel antenna on the tower at a center of radiation of 185 feet above ground level ("AGL"). This equipment was to operate 19 channels at 100 Watts ERP and 880-894 MHz.

SNET now plans to install:

- Up to 12 dual band DUO4-8670 panel antennas (4-ft high; CSS Antenna Co.) at the same centerline height of 185 feet AGL.
- One MB100RR650200DPAL panel antenna at 185 feet AGL.
- Up to 8 ADC Inc. tower mount amplifiers on the same platform as the antennas. These units enhance reception of incoming signals and have no effect on power density. They are in the form of metal boxes measuring approximately 5" x 9" x 13" and weigh approximately 26 pounds apiece.
- One LMU ("location measurement unit"; for emergency 911 locating) either on the tower at a yet-undetermined height or on the equipment building. This unit is of insignificant size (9 inches high) and weight (9 ounces).
- One GPS antenna on the equipment building. This antenna is receive-only.

With this "GSM" configuration, SNET will broadcast up to:

- 16 channels, 100 Watts ERP, 880 - 894 MHz;
- 2 channels, 296 Watts ERP, 880 - 894 MHz;
- 2 channels, 427 Watts ERP, 1930 - 1935 MHz.

The changes to the Storrs tower facility do not constitute a modification as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2) because they will not result in any substantial adverse environmental effect.

1. The height of the overall structure will be unaffected.

2. The proposed changes will not affect the property boundaries. All new construction will take place within the existing within the previously-approved fence.

3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.

4. Radio frequency power density, however, will increase slightly due to use of additional channels broadcasting at higher power. Nonetheless, the SNET plan will still not

increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. A comparison of before and after "worst-case" exposure calculations in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower follows:

Before GSM installation:

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density † (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
Existing *	--	--	--	--	0.1530	--	31.6
Nextel	225	851	9	100	0.0064	0.5673	1.1
SNET	185	880-894	19	100	0.0199	0.5867	3.4
UCONN Police**	180	866-868	3	197	0.0066	0.5773	1.1
UCONN Police***	50	Not given in UCONN application.					0.0
Total							**37.2 %**

* Values taken from "Tower Consolidation Feasibility Study," RCC Consultants, February 2001.
** See, EM-UCONN-078-010525. Supplemented by data from G. Davis, UCONN Tower Manager.
*** See, EM-UCONN-078-010824.
† Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.

With GSM installation:

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
Others	As presented above.						33.8
SNET TDMA	185	880 - 894	16	100	0.0168	0.5867	2.9
SNET GSM	185	880 - 894	2	296	0.0062	0.5867	1.1
SNET GSM	185	1930 - 1935	2	427	0.0090	1.0000	0.9
Total							**38.6%**

As the tables demonstrate, the "worst-case" exposure would increase by 1.4 % of the ANSI/IEEE standard to 38.6 %, as calculated for mixed frequency sites. Power density levels from SNET's revised use of the tower facility would thus remain within applicable ANSI/IEEE standards after the equipment changes are made.

For the foregoing reasons, SNET respectfully submits that proposed changes to implement expanded shared use at the South Windsor site constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7700 with questions concerning this application. Thank

you for your consideration in this matter.

Sincerely,

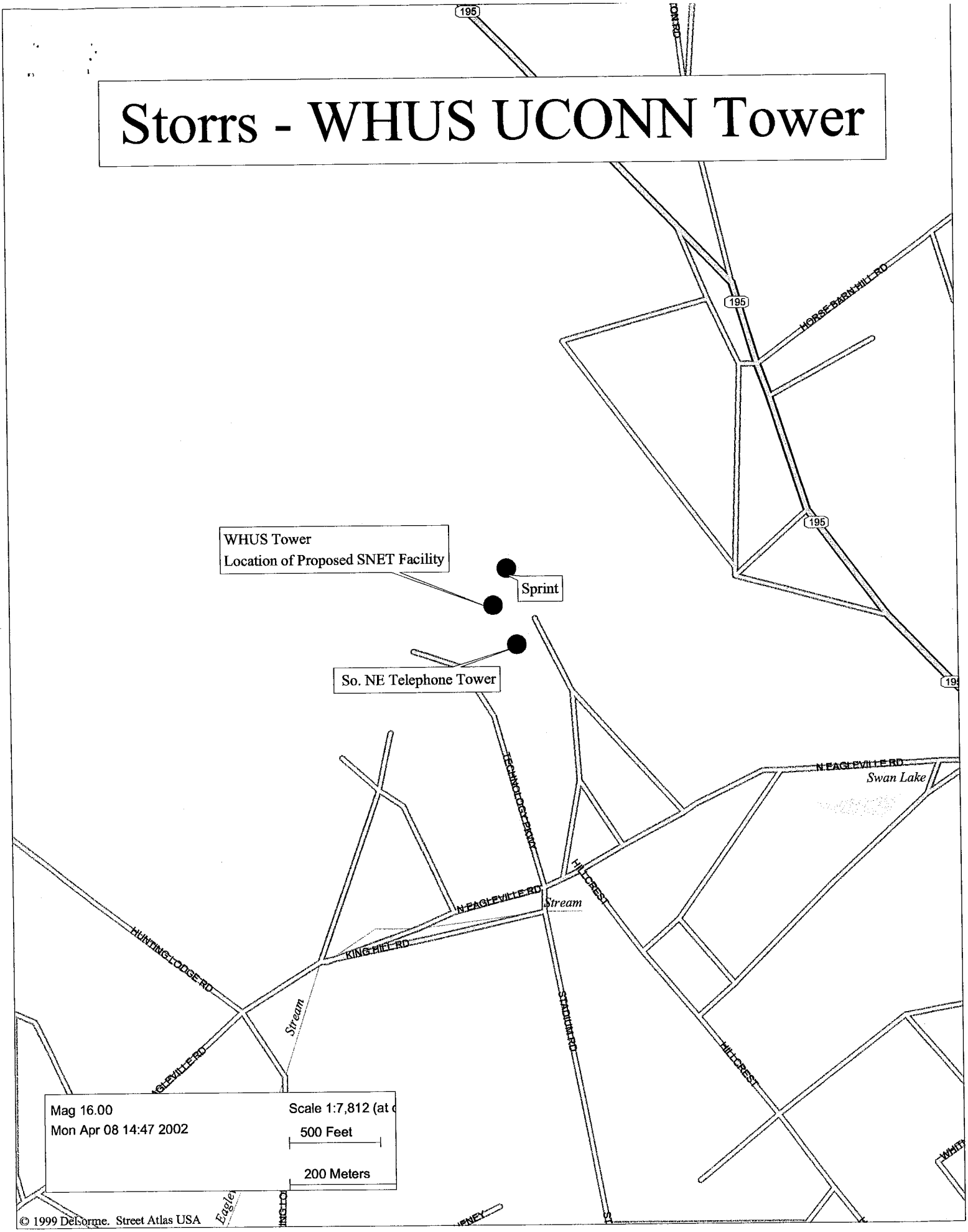
Michele G. Briggs

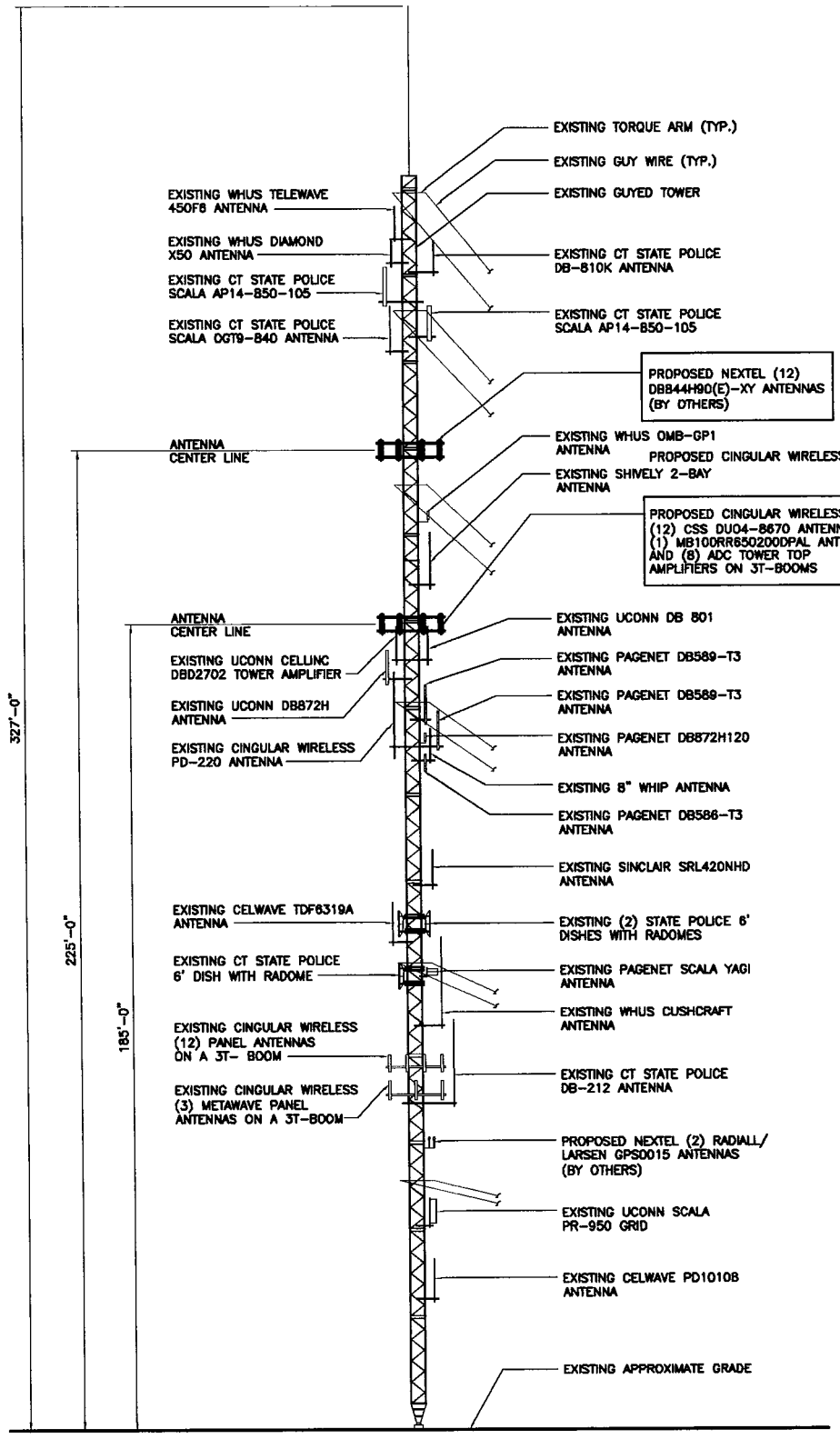
Michele G. Briggs
Manager of Real Estate

Enclosures

cc: Honorable Martin H. Berliner, Town Manager

Storrs - WHUS UCONN Tower





1 / L-2 TOWER ELEVATION

SCALE: 1"=40'-0"

0 20 40 80

SITE ID NO:	
Designed by:	
Drawn by: CTJ	
Checked by:	
Approved by:	

URS CORPORATION AES
795 BROOK STREET, BLDG 5
ROCKY HILL, CONNECTICUT
1-(860)-529-8882

cingular WIRELESS

WIRELESS COMMUNICATIONS FACILITY

WHUS RADIO TOWER

SITE ADDRESS: STORRS, CONNECTICUT

REV.	DATE:	DESCRIPTION
2	04-09-02	REVISED
1	02/25/02	REVISED

Scale: AS NOTED | Date: 01-31-00

Job No.F301804.47 | File No. L-2 | Dwg. 2 of 2

Dwg. No. L-2

Structural Analysis Report

Job #02-01020
Revision A

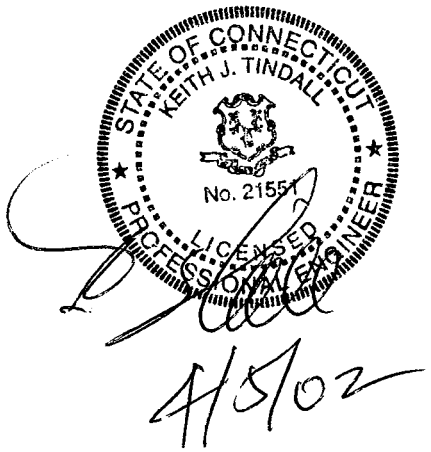
Existing 327' Sabre Communications Corporation
4400SRW Guyed Tower

Located at Storrs, Connecticut

Report Completed for

Cingular Wireless

Westwood, MA



4/5/02

Prepared by

Sabre Communications Corporation

April 5, 2002

Structural Analysis Report
Existing 327' Sabre Communications Corporation
4400SRW Guyed Tower

Table of Contents

Prepared by JMB

Checked by DRM

Approved by KJT

4/5/02

Introduction

The purpose of this analysis is to determine if the existing tower is in conformance with the requirements of ANSI/TIA/EIA 222-F, while supporting specified equipment. The tower is a 327' 4400SRW guyed tower and was originally manufactured by Sabre Communications Corporation. The tower is located in Storrs, Connecticut. The analysis is being performed for Cingular Wireless, Westwood, MA.

Method of Analysis

The computer program that was used for this analysis is described on the attached page. The analysis was performed using a basic wind speed of 90 mph concurrent with 1/2" ice, in accordance with ANSI/TIA/EIA 222-F. Allowable stresses, safety factors and load factors were also determined in accordance with this standard.

Supported Equipment

The analysis was performed for the tower, supporting the following equipment:

WHUS

1. One (1) Shively 6813 2-bay antenna on a pole from 290' to 327'
2. One (1) OMB-GP1 antenna from 209' to 211'
3. One (1) Telewave 450F6 antenna from 273' to 281'
4. One (1) Diamond x50 antenna from 273' to 267'
5. One (1) Cushcraft antenna at 92'

Connecticut State Police

6. Two (2) 6' dishes with radomes from 113' to 119'
7. One (1) 6' dish with radome from 101' to 107'
8. One (1) Scala AP14-850-105 antenna from 258' to 267'
9. One (1) DB-810K antenna from 265' to 273'
10. One (1) Scala AP14-850-105 antenna from 258' to 250'
11. One (1) DB-212 antenna from 74' to 94'
12. One (1) Scala OGT9-840 antenna from 258' to 247'

Verizon
13.Twelve (12) panel antennas on a 3T-Boom from 82' to 86'
14.One (1) PD-220 antenna from 154' to 174'
15.Three (3) Metawave panel antennas on a 3T-Boom at 80'
16.Twelve (12) 1-1/4" lines and three (3) 1/2" lines

PageNet
17.One (1) DB872H120 antenna from 158' to 160'
18.One (1) DB586-T3 antenna from 151' to 155'
19.One (1) DB589-T3 antenna from 156' to 165'
20.One (1) DB589-T3 antenna from 162' to 171'
21.One (1) Scala yagi antenna at 105'

Other Tenants
22.One (1) Shively 2-bay antenna from 193' to 206'
23.One (1) Celwave TDF6319A antenna from 111' to 121'
24.One (1) 8' whip antenna from 153' to 161'
25.One (1) Celwave PD10108 antenna at 29'
26.One (1) Sinclair SRL420NHD antenna from 124' to 133'

SNET(proposed)
27.Twelve (12) CSS DUO4-8670 antennas, one (1) MB100RR650200DPAL antenna and eight (8) ADC towertop amplifiers on a 3T-Boom at 185', with sixteen (16) 1-5/8" lines
28.One (1) emergency 911 LMU approximately tree-line level plus 10'

Nextel (proposed)
29.Twelve (12) DB844H90(E)-XY antennas on a platform at 225', with fifteen (15) 1-5/8" lines
30.Two (2) Radiall/Larsen GPS0015 antennas at 65' with two (2) 1/2" lines

UCONN Inventory Update
31. One (1) DB 801 at 180'
32. One (1) Cellinc DBD2702 Tower Amplifier at 180'
33. One (1) DB872H at 175'
34. Scala PR-950 Grid at 50'

Other
35. Two (2) Ice Shields at 125'
36. Two Equipment Boxes at 258'
37. Side Lights and J Box at 155'

Each tower face is assumed to be fully covered with feedlines.

Results

Tower Section Elevation (ft)	Percentage of Allowable Leg Capacity Used (%)	Percentage of Allowable Diagonal Capacity Used (%)
0-20	69.3	74.9
20-40	75.2	44.4
40-60	70.7	51.4
60-80	72.5	44.4
80-100	72.6	72.2
100-120	68.0	58.8
120-140	57.2	51.9
140-160	70.8	58.1
160-180	56.9	63.0
180-200	60.8	92.1
200-220	58.6	43.0
220-240	63.6	53.2
240-260	62.0	41.0
260-280	42.0	25.0
280-288	46.0	49.4
288-323	13.8	

Guy Elevation (ft)	Percentage of Allowable Guy Capacity Used (%)
57	89.7
107	92.2
167	84.0
217	74.6
257	73.5
284	70.2

The results of the analysis show no overstresses in any tower component.

In addition, the results of the analysis show that the foundations are adequate.

Conclusions

Based on the preceding results, the following conclusions have been made:

1. The tower with specified equipment is adequate to achieve a basic wind speed rating of 90 mph concurrent with 1/2" ice, in accordance with ANSI/TIA/EIA 222-F.
2. No modifications are required, in order to meet the structural criteria stated above.
3. The analysis is valid only for the equipment listed above. If the equipment is not as listed, an additional analysis should be performed.
4. The analysis assumes that the tower contains no structural defects, and that all components have been installed properly.

Description of Guyed Tower Computer Program

A guyed tower computer program called GUYMAST™, developed by Guymast Inc., is utilized by Sabre Communications Corporation to perform the structural analysis and design of guyed towers. This program is one of the most widely used programs in the tower industry.

"GUYMAST performs the analysis of guyed towers using three separate models. The first consists of a set of guys connected at the same elevation on the mast, used independently for each guy level. The second is a continuous beam model using the stiffness method (including beam-column interaction), used to analyze the bending of the mast in the two orthogonal vertical planes independently. The third is a model of a shaft subjected to torsional loading, for the analysis of tower twist.

"With an arbitrary set of initial displacements, the guy model is used to obtain the guy stiffnesses and guy loads to be applied in the mast models. These guy stiffnesses and loads are then used in the two mast models to calculate a new set of mast displacements, which are then fed back into the guy model to obtain a better approximation of guy stiffnesses and loads.

"The process is repeated until displacements calculated in the beam model match, within a specified tolerance, those used by the guy model in determining the support stiffnesses."[1]

1. GUYMAST™ user manual, by Guymast Inc., © 1997.

SNET Mobility, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7700
Fax: (860) 513-7190

Michele G. Briggs
Manager of Real Estate

April 9, 2002

Honorable Martin H. Berliner, Town Manager
Mansfield Town Hall
Four South Eagleville Rd.
Mansfield, Connecticut 06268

Re: SNET Mobility, LLC notice of intent to modify an existing telecommunications facility located on the University of Connecticut campus off North Eagleville Road, Storrs, Connecticut. (Docket No. 179)

Dear Mr. Berliner:

On March 7, 2002, the Connecticut Siting Council approved an application by SNET Mobility, LLC ("SNET") to install antennas and equipment at an existing wireless telecommunications tower facility located at North Eagleville Road in Storrs, Connecticut.

The North Eagleville Road facility is owned and operated by the University of Connecticut ("UCONN") and WHUS-FM Radio. UCONN's Tower Site Manager is Mr. George Davis, whose address in 1814 Route 171, Woodstock Valley, Connecticut 06282.

Owing to rapidly evolving telecommunications technology, SNET has now decided to install a different model of antenna than was approved in EM-SNET/NEXTEL-078-020226. SNET also intends to place some additional small pieces of telecommunications equipment on the tower.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73. Please accept this letter as notification to the Town of Mansfield under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter fully describes SNET's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 513-7700 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Michele G. Briggs

Michele G. Briggs
Manager of Real Estate

Enclosure